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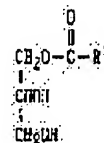
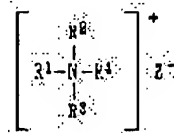
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(54) HAIR COSMETIC

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a hair cosmetic which shows an excellent application property to the hair, leaves a high residual feeling that conditioning components are kept when wet and gives a dry light finish free from greasy touch after dried by including a cationic surfactant, an oil agent and benzoic acid.

SOLUTION: The hair cosmetic which is washed away to use is obtained by including (A) 0.5-8 wt.% of a cationic surfactant, (B) 0.5-15 wt.% of an oil agent and (C) 0.2-2 wt.% of benzoic acid or its salt, preferably in addition (D) 0.5 wt.% or below of an anionic surfactant. It is favorable that the weight ratio between the components A and B is 2:1 to 1:7, the component A is a quaternary ammonium salt of formula I (R1-R4 are each an 8-28C alkoxy or the like; Z- is a halogenic ion or the like) and the component B contains an aliphatic alcohol of formula R5-OH, a fatty acid of formula R6-COOH and a monoglyceride of formula II (R5 is a 12-22C alkyl or the like; R6 and R7 are each a 11-21C alkyl or the like).



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 CLAIMS

[Claim(s)]

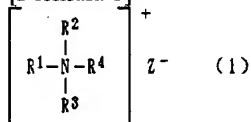
[Claim 1] A component (A), (following B), and a following (C): (A) cation nature surfactant 0.5 - 8 % of the weight, (B) oily medicine 0.5 - 15 % of the weight, the (C) benzoic acid, or its salt Charge of hair makeup which contains 0.2 - 2 % of the weight, and flushes and uses it.

[Claim 2] Furthermore, the charge of hair makeup according to claim 1 which contains (D) anionic surfactant 0.5 or less % of the weight.

[Claim 3] The charge of hair makeup according to claim 1 or 2 whose weight ratio of a component (A) and a component (B) is (A):(B)=2:1-1:7.

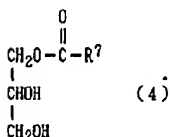
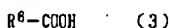
[Claim 4] The cation nature surfactant of a component (A) is a general formula (1).

[Formula 1]



at least one the inside of a formula, and among R¹, R², R³, and R⁴ -- an alkoxy group with 8-28 total carbons -- The alkyl group or alkenyl machine which may be replaced by the alkenyloxy machine, the alkanoyl amino machine, or the ARUKE noil amino group is shown. The remainder shows a benzyl, the alkyl group of carbon numbers 1-5, a hydroxyalkyl machine, or a ten or less sum total addition mol number polyoxyethylene machine. Z- halogen ion or an organic anion -- being shown -- the charge of hair makeup of the claim 1-3 which is quarternary ammonium salt expressed given in any 1 term

[Claim 5] Monoglyceride as which the oily medicine of a component (B) is expressed in the fatty alcohol expressed with a general formula (2), the fatty acid expressed with a general formula (3), and a general formula (4). [Formula 2]



It is the charge of hair makeup of the claims 1-4 which are what is chosen out of (R⁵ shows the alkyl group or alkenyl machine of carbon numbers 12-22 among a formula, and R⁶ and R⁷ show the alkyl group or alkenyl machine of carbon numbers 11-21) given in any 1 term.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention is excellent in the application nature to hair, and its feeling of remains of a conditioning component is high at the time of a sentiment, and, moreover, it relates to the charge of hair makeup from which the feeling of a settlement of the light result made dry [without stickiness] and hair is obtained after dryness.

[0002]

[Description of the Prior Art] Although the charge of hair makeup which a rinse, a treatment, etc. use, flushing uses various kinds of oily medicines as the base conventionally, the smoothness at the time of rinsing decreases, or there is a fault, such as sensing stickiness after dryness.

[0003] Moreover, since the light result made dry after dryness is obtained, feels, such as *****, may become [consequently / hair] bad in many cases at the sacrifice of the feeling of remains of the conditioning component at the time of rinsing.

[0004]

[Problem(s) to be Solved by the Invention] The purpose of this invention is excellent in the application nature to hair, and its feeling of remains of a conditioning component is high at the time of a sentiment, and, moreover, it is after dryness to offer the charge of hair makeup from which the light result made dry [without stickiness] is obtained.

[0005]

[Means for Solving the Problem] When combining a cation nature surfactant, an oily medicine and a benzoic acid, or its salt at a specific rate, this invention persons were excellent in the application nature to hair, and feeling of remains of a conditioning component was high at the time of a sentiment, and they found out that the charge of hair makeup from which the feeling of a settlement of the light result made dry [which moreover does not have stickiness after dryness], and hair is obtained and which is flushed and used was obtained.

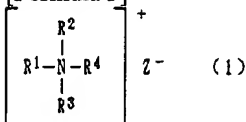
[0006] this invention is a following component (A), (B), and (C): (A) cation nature surfactant. 0.5 - 8 % of the weight, (B) oily medicine 0.5 - 15 % of the weight, the (C) benzoic acid, or its salt The charge of hair makeup which contains 0.2 - 2 % of the weight, and flushes and uses it is offered.

[0007]

[Embodiments of the Invention] As a cation nature surfactant of a component (A) used by this invention, it is the following general formula (1), for example.

[0008]

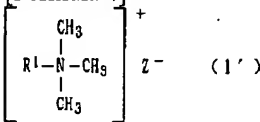
[Formula 3]



[0009] at least one the inside of a formula, and among R1, R2, R3, and R4 -- an alkoxy group with 8-28 total carbons -- The alkyl group or ARUKENIRU machine which may be replaced by the alkenyloxy machine, the alkanoyl amino machine, or the ARUKE noil amino group is shown. the remainder -- a benzyl, the alkyl group of carbon numbers 1-5, a hydroxyalkyl machine, or the number of sum total addition mols -- ten or less polyoxyethylene machine -- being shown -- Z- halogen ion or an organic anion -- being shown -- the quarternary ammonium salt expressed is mentioned It is especially the following formula (1') among these.

[0010]

[Formula 4]



[0011] What is expressed with (R1 shows the alkyl group of carbon numbers 12-22 among a formula, and Z- shows the same meaning as the above) is desirable, and chlorination cetyl trimethylammonium and chlorination millimeter still trimethylammonium are still more desirable.

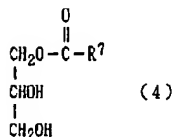
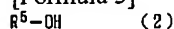
[0012] Since conditioning effect with sufficient being able to use one or more sorts and blending 0.5 to 5% of the weight especially 0.5 to 8% of the weight during [all] composition and a feeling of an application are obtained, the cation nature surfactant of a component (A) is desirable.

[0013] As an oily medicine of a component (B) used by this invention, fatty alcohol, a fatty acid, monoglyceride, ester, a hydrocarbon, and silicone are mentioned, for example.

[0014] The fatty alcohol expressed especially with the following general formula (2), the fatty acid expressed with a general formula (3), and the monoglyceride expressed with a general formula (4) are [among these] desirable.

[0015]

[Formula 5]



[0016] (R5 shows the alkyl group or ARUKENIRU machine of carbon numbers 12-22 among a formula, and R6 and R7 show the alkyl group or ARUKENIRU machine of carbon numbers 11-21)

Furthermore, cetyl alcohol, a myristic acid, behenic acid, and oleic acid monoglyceride are desirable.

[0017] It is easy too much application nature, and, as for the oily medicine of a component (B), what can use one or more sorts and is especially blended further one to 5% of the weight one to 10% of the weight 0.5 to 15% of the weight during [all] composition is desirable at the point to hair which is a feel after the time and dryness.

[0018] Moreover, since the weight ratio of a component (A) and a component (B) is excellent in the application nature to hair, and the feel at the time of rinsing in it being (A):(B) = 2:1-1:7, especially 2:1-1:5, it is desirable.

[0019] As a salt of the benzoic acid of a component (C) used by this invention, a sodium benzoate, a benzoic-acid potassium, a magnesium benzoate, an ammonium benzoate, etc. are mentioned, and especially a sodium benzoate is desirable.

[0020] As for the benzoic acid of a component (C), or especially its salt, it is desirable to blend 0.3 to 1% of the weight 0.2 to 2% of the weight during [all] composition in respect of the feel after the time of rinsing, and dryness. especially, at less than 0.2 % of the weight, it rinsed, and the feeling of remains at the time was bad, and considered as dry after dryness -- it is collected and admiration does not have profit

[0021] Since the result which could blend (D) anionic surfactant with the charge of hair makeup of this invention further, suppressed stickiness more, and was made dry is obtained, it is desirable. As this anionic surfactant, for example Alkylbenzene sulfonates, Alkyl ether sulfate, an ARUKE nil ethereal-sulfate salt, an alkyl sulfate, An ARUKENIRU sulfate, an olefin sulfonate, an alkane sulfonate, A higher-fatty-acid salt, an ether (amide) carboxylic-acid type surfactant, alpha-sulfo fatty-acid salt, or ester, N-acylamino acid type surfactant, a phosphoric ester type surfactant, a sulfo succinic-acid ester, type surfactant, A polyoxyalkylene fatty-acid amide ethereal-sulfate salt, a monoglyceride sulfate salt, An acylation isethionic-acid salt, an alkyl glyceryl ether sulfate, or an alkyl glyceryl ether sulfonate, An alkyl or ARUKE nil amide sulfonate, an alkanol amide sulfo succinic-acid salt, alkyl sulfo acetate, acylation taurate, an N-acyl-N-carboxy ethyl glycine salt, etc. are mentioned.

[0022] Alkyl ether sulfate, an alkyl sulfate, an alkane sulfonate, a phosphoric ester type surfactant, and a sulfo succinic-acid ester type surfactant are desirable, and a dodecyl sulfate, a polyoxyethylene lauryl ethereal-sulfate salt, a polyoxyethylene sulfo succinic-acid salt, and polyoxyethylene oleyl ether phosphate are [among these] especially desirable.

[0023] As for the anionic surfactant of a component (D), it is desirable to be able to use one or more sorts and to blend 0.01 to 0.1% of the weight especially 0.5 or less % of the weight during [all] composition.

[0024] the charge of hair makeup of this invention -- for example, surfactants other than the above, anionic polymer, non-ionicity polymer, cation nature polymer, alcohols, fine particles, functional bead capsules, a metal chelate agent, an anti-oxidant, a viscosity controlling agent, antiseptics, an animals-and-plants extract, an antiphlogistic, and a germicide -- anti- -- a dandruff -- an agent, an antioxidant, a pearl-ized agent, an ultraviolet ray absorbent, pH regulator, coloring matter, perfume, etc. can be blended suitably

[0025] The charge of hair makeup of this invention can be manufactured according to the usual method, and is applied as a charge of hair makeup of the type which a rinse, a treatment, conditioning, a hair pack, etc. use, flushing.

[0026]

[Effect of the Invention] It excels in the application nature to hair, and that the charge of hair makeup of this invention tends to be extended to hair, and tends to get used etc. has the high feeling of remains of a conditioning component at the time of a sentiment, and is smooth, and, moreover, the feeling of a settlement of the light result made dry [without stickiness] and good hair is obtained after dryness.

[0027]

[Example] The feeling of a settlement made dry [of the composition shown in example 1 Table 1 - 3 / which manufactured the charge of hair makeup flushed and used by the conventional method, and were described after the conformability at the time of an application, the feeling of remains at the time of rinsing and smoothness and dryness / the lack to attach and dry one] was

evaluated. A result is shown in Table 1 - 3.

[0028] (The evaluation method) After having applied 2g of each charge of hair makeup after carrying out shampoo washing of about 20g hair bunch, and making it get used to the whole, it rinsed fixed time by *****. Subsequently, organic-functions evaluation was performed on the following criteria by ten persons' panelist about each item when performing towel dry cleaning and dryer dryness by the usual method. It asked for the average mark, and O and 2.5-3.4 points were shown for 3.5 or more points, and ** and 1.4 points or less were shown for O and 1.5-2.4 points as x.

4; it is very good.

3; it is good.

2; it can be called neither.

1; it is bad.

[0029]

[Table 1]

成 分 (重量%)	本 発 明 品						
	1	2	3	4	5	6	7
塩化セチルトリメチルアンモニウム	0.83	1	1	2	2	3	3
セタノール	1	1.5	3	2.5	5	5	10
安息香酸ナトリウム	0.67	0.3	0.4	0.4	0.7	0.5	1
サッカリンナトリウム	—	—	—	—	—	—	—
ベンゼンスルホン酸ナトリウム	—	—	—	—	—	—	—
p-アミノ安息香酸ナトリウム	—	—	—	—	—	—	—
2-ナフトエ酸ナトリウム	—	—	—	—	—	—	—
ドデシル硫酸ナトリウム	—	—	—	—	—	—	—
ポリオキシエチレン(3)ラウリルエーテル	—	—	—	—	—	—	—
硫酸ナトリウム	—	—	—	—	—	—	—
ポリオキシエチレン(1)スルホコハク酸ラ	—	—	—	—	—	—	—
ウリル2ナトリウム	—	—	—	—	—	—	—
ポリオキシエチレン(7)オレイルエーテル	—	—	—	—	—	—	—
リン酸ナトリウム	—	—	—	—	—	—	—
精製水	バランス	バランス	バランス	バランス	バランス	バランス	バランス
塗布時のなじみやすさ	○	○	◎	◎	◎	◎	○
すすぎ時の残留感	◎	◎	◎	◎	◎	◎	◎
すすぎ時の滑らかさ	◎	◎	◎	◎	◎	◎	◎
乾燥後のべたつきのなさ	○	○	○	○	○	○	○
サラサラとしたまとまり感	○	○	○	◎	◎	○	○

[0030]

[Table 2]

成 分 (重量%)	本 発 明 品				比 較 品		
	8	9	10	11	1	2	3
塩化セチルトリメチルアンモニウム	2	2	2	2	0.83	2	2
セタノール	2.5	2.5	2.5	2.5	1	2.5	2.5
安息香酸ナトリウム	0.4	0.4	0.4	0.4	—	—	—
サッカリンナトリウム	—	—	—	—	0.67	0.4	—
ベンゼンスルホン酸ナトリウム	—	—	—	—	—	—	0.4
p-アミノ安息香酸ナトリウム	—	—	—	—	—	—	—
2-ナフトエ酸ナトリウム	—	—	—	—	—	—	—
ドデシル硫酸ナトリウム	0.05	—	—	—	—	—	—
ポリオキシエチレン(3)ラウリルエーテル	—	0.05	—	—	—	—	—
硫酸ナトリウム	—	—	—	—	—	—	—
ポリオキシエチレン(1)スルホコハク酸ラ	—	—	0.05	—	—	—	—
ウリル2ナトリウム	—	—	—	—	—	—	—
ポリオキシエチレン(7)オレイルエーテル	—	—	—	0.05	—	—	—
リン酸ナトリウム	—	—	—	—	—	—	—
精製水	バランス	バランス	バランス	バランス	バランス	バランス	バランス
塗布時のなじみやすさ	◎	◎	◎	◎	×	○	○
すすぎ時の残留感	◎	◎	◎	◎	×	×	×
すすぎ時の滑らかさ	◎	◎	◎	◎	×	○	○
乾燥後のべたつきのなさ	◎	◎	◎	◎	○	○	○
サラサラとしたまとまり感	◎	◎	◎	◎	×	×	×

[0031]

[Table 3]

成 分 (重量%)	比 較 品				
	4	5	6	7	8
塩化セチルトリメチルアンモニウム	2	2	2	2	2
セタノール	2.5	2.5	0.1	2.5	2.5
安息香酸ナトリウム	—	—	0.4	0.1	—
サッカリンナトリウム	—	—	—	—	—
ベンゼンスルホン酸ナトリウム	—	—	—	—	—
p-アミノ安息香酸ナトリウム	0.4	—	—	—	—
2-ナフトエ酸ナトリウム	—	0.4	—	—	—
ドデシル硫酸ナトリウム	—	—	—	—	—
ポリオキシエチレン(3)ラウリルエーテル硫酸ナトリウム	—	—	—	—	0.05
ポリオキシエチレン(1)スルホコハク酸ラウリル2ナトリウム	—	—	—	—	—
ポリオキシエチレン(7)オレイルエーテルリン酸ナトリウム	—	—	—	—	—
精製水	バランス	バランス	バランス	バランス	バランス
塗布時のなじみやすさ	○	○	×	○	○
すすぎ時の残留感	×	×	△	×	×
すすぎ時の滑らかさ	○	○	×	○	○
乾燥後のべたつきのなさ	○	○	○	○	○
サラサラとしたまとまり感	×	×	×	×	×

[0032] The charge of hair makeup of the composition shown in two or less example was manufactured by the conventional method.

[0033]

[Table 4]

(Component) (% of the weight)

Chlorination cetyl trimethylammonium . 2 cetyl alcohol 3 sodium benzoates 0.4 propylene glycols Two hydroxyethyl celluloses (the Daicel Chemical Industries, Ltd. make, the HEC die cell SE 850) 0.2 isopropyl palmitate 0.2pH regulator (a citric acid / citric-acid Na) Optimum dose perfume 0.2 purified waters Balance. [0034] The charge of hair makeup of the composition shown in three or less example was manufactured by the conventional method.

[0035]

[Table 5]

(Component) (% of the weight)

Chlorination millimeter still trimethylammonium . 0.5 chlorination cetyl trimethylammonium 1.5 myristic acids 1 behenic acid 1 oleic-acid monoglyceride 0.2 sodium benzoates 0.7 propylene glycols 2 ethyl diethylene glycol ether 1pH regulator (a citric acid / citric-acid Na) Optimum dose perfume 0.2 purified waters Balance. [0036] The charge of hair makeup of the composition shown in four or less example was manufactured by the conventional method.

[0037]

[Table 6]

(Component) (% of the weight)

Chlorination cetyl trimethylammonium . 2 cetyl alcohol 3 sodium benzoates 0.4 polyoxyethylene (3) lauryl ethereal-sulfate sodium 0.02 alkane (C12-C14) sulfonic-acid-sodium 0.02 glycerols 1 MEDOU form oil 0.2 jojoba oils 0.2pH regulator (a citric acid / citric-acid Na) Optimum dose perfume 0.2 purified waters Balance. [0038] Each charge of hair makeup which was obtained in the examples 2-4 and which is flushed and used was excellent in the application nature to hair, the feeling of remains of a conditioning component was high at the time of a sentiment, it was smooth, and the feeling of a settlement of the light result made dry [which moreover does not have stickiness after dryness], and good hair was obtained.

[Translation done.]